# **American Journal of Hypertension**

JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION

### **CUMULATIVE CONTENTS**

# **NUMBER 1, JANUARY 2005**

EDITORIAL
Report on the Fifth Annual Laragh Conference: Interaction of the Angiotensin Converting Enzyme (ACE) With the Renin-Angiotensin System, the Kinin System and Beyond
Haralambos Gavras1-2
ORIGINAL CONTRIBUTIONS
Metabolic Syndrome and Insulin Resistance in the TROPHY Sub-Study: Contrasting Views in Patients With High-Normal
Blood Pressure
Combination of Half Doses of Angiotensin Type 1 Receptor Antagonist and Angiotensin-Converting Enzyme Inhibitor in
Diabetic Nephropathy
Arterial Compliance Changes in Diabetic Normotensive Patients After Angiotensin-Converting Enzyme Inhibition
Therapy
Type 2 Diabetes Is Associated With Left Ventricular Concentric Remodeling in Hypertensive Patients 23–29 Kazuo Eguchi, Kazuomi Kario, Satoshi Hoshide, Joji Ishikawa, Masato Morinari, and Kazuyuki Shimada
Adiponectin, Insulin Resistance, and Left Ventricular Structure in Dipper and Nondipper Essential Hypertensive Patients. 30–35 Paolo Della Mea, Mario Lupia, Valentina Bandolin, Samuele Guzzon, Nicoletta Sonino, Roberto Vettor, and Francesco Fallo
Progesterone Increases Blood Pressure in Spontaneous Gestational Hypertension in Rats
Antiproteinuric Effects of Mineralocorticoid Receptor Blockade in Patients With Chronic Renal Disease
Aldosterone-to-Renin Ratio, Arterial Stiffness, and the Response to Aldosterone Antagonism in Essential
Hypertension
Effects of Circadian Rhythms, Posture, and Medication on Renin-Aldosterone Interrelations in Essential
Hypertensives
Determination of Arterial Compliance Using Blood Pressure Waveform Analysis with the CR-2000 System: Reliability, Repeatability, and Establishment of Normal Values for Healthy European Population—The Seven European Sites Study (SESS)
Triacylglycerol Molecular Species Are Depleted to Different Extents in the Myocardium of Spontaneously Hypertensive
Pate Fed Two Oleic Acid-Pich Oils

Javier S. Perona and Valentina Ruiz-Gutierrez

Vascular Smooth Muscle Cell NAD(P)H Oxidase Activity During the Develor II and Role of Insulinlike Growth Factor-1 Receptor Transactivation Montserrat C. Cruzado, Norma R. Risler, Roberto M. Miatello, Guoying Ya	
A Randomized Controlled Trial of Stress Reduction in African Americans T Year	me-Johnson, Maxwell Rainforth,
John W. Salerno, William Sheppard, Amparo Castillo-Richmond, Vernon A	
Pleiotropic Genetic Effects Contribute to the Correlation between HDL Che Hypertensive Sibships	
High Pulse Pressure and Nondipping Circadian Blood Pressure in Patients Thrombogenesis and Endothelial Damage/	
Dysfunction	
Association of Ambulatory Blood Pressure and Dietary Caffeine in Margaret R. Savoca, M. Lynne MacKey, Conner D. Evans, Martha Wilson,	
REVIEWS  Of the Renin-Angiotensin System and Reactive Oxygen Species: Type 2	Dishotos and Angiotopsia II
Acute Effects of Caffeine on Arterial Stiffness, Wave Reflections, Theodoros G. Papaioannou, Kalliopi Karatzi, Emmanouil Karatzis, Christo	
Influence of Lifestyle Modification on Arterial Stiffness and Wave Hirofumi Tanaka and Michel E. Safar	Reflections
LETTERS TO THE EDITOR	
Physicians and Blood Pressure Measurement	
Hypertension as a Risk Factor for Hip Fracture	
NUMBER 1, PART 2, JA	NUARY 2005
PULSE CONTOUR ANALYSIS AND AUGMENTATION BEYOND CUFF BLOOD PRESSURI SUPPORTED BY AN EDUCATIONAL GRANT F	MEASUREMENT
INTRODUCTION	
Pulse Contour Analysis and Augmentation Index: It's Time to Move B Joseph L. Izzo, Jr.	eyond Cuff Blood Pressure Measurement. 1S–2S
ORIGINAL CONTRIBUTIONS	
Clinical Measurement of Arterial Stiffness Obtained From Noninvasive	
Pressure Waveforms	35-105

Radial Augmentation Index: A Useful and Easily Obtainable Parameter

Katsuhiko Kohara, Yasuharu Tabara, Akira Oshiumi, Yoshinori Miyawaki, Tatsuya Kobayashi, and Tetsuro Miki
Augmentation Index in Heart Disease
Role of Arterial Wall Properties in the Pathogenesis of Systolic Hypertension
<b>NUMBER 2, PART 1, FEBRUARY 2005</b>
<b>EDITORIAL</b> Time for Focus on Morning Hypertension: Pitfall of Current Antihypertensive Medication149–151 <i>Kazuomi Kario</i>
ORIGINAL CONTRIBUTIONS  Relationship Among End-Stage Renal Disease, Hypertension, and Sleep Apnea in Nondiabetic Dialysis Patients. 152–157  Cassio José de Oliveira Rodrigues, Odair Marson, Sérgio Tufic, Osvaldo Kohlmann Jr, Sonia Maria Guimarães, Pereira Togeiro, Artur Beltrame Ribeiro, and Agostinho Tavares
Inhibition of Brain Angiotensin-Converting Enzyme by Peripheral Administration of Trandolapril Versus Lisinopril in Wistar Rats
In-Hospital Complications of Acute Myocardial Infarction in Hypertensive Subjects
Left Ventricular Mass and Mechanics in Mild-to-Moderate Hypertension: Effect of Nebivolol Versus  Telmisartan
Insulin Sensitivity and Endothelial Function in Hypertension
A Double-Blind, Dose-Response Study of Losartan in Hypertensive Children
Normalization for Body Size and Population-Attributable Risk of Left Ventricular Hypertrophy 191–196 Giovanni de Simone, Jorge R. Kizer, Marcello Chinali, Mary J. Roman, Jonathan N. Bella, Lyle G. Best, Elisa T. Lee, and Richard B. Devereux
Average Blood Pressure and Cardiovascular Disease–Related Mortality in Middle-Aged Women 197–201 Marijke J.C.A. van Trijp, Diederick E. Grobbee, Petra H.M. Peeters, Yvonne T. van Der Schouw, and Michiel L. Bots
Heart Failure After Long-Term Supravalvular Aortic Constriction in Rats
Dietary Fish Oil Prevents Vascular Dysfunction and Oxidative Stress in Hyperinsulinemic Rats 213–219 Michael D. Nyby, Keiko Matsumoto, Kei Yamamoto, Karclin Abedi, Pirooz Eslami, Gustavo Hernandez, Victoria Smutko, Morris E. Berger, and Michael L. Tuck
Short-Term Oral Folic Acid Supplementation Enhances Endothelial Function in Patients With Type 2  Diabetes

The Effect of Rosiglitazone on Urine Albumin Excretion in Patients With Type 2 Diabetes Mellitus and	
Hypertension	
John G. Yovos, Christodoulos I. Pliakos, and Achilleas A. Tourkantonis	
Acute Hyperinsulinemia Reduces Plasma Leptin Levels in Insulin-Sensitive Japanese Men 235–243  Kazuko Masuo, Tomohiro Katsuya, Toshio Ogihara, and Michael L. Tuck	
What Is the Accuracy of Clinic Blood Pressure Measurement?	
Assessment of Central and Peripheral Arterial	
Stiffness	
Low Mineral Intake Is Associated with High Systolic Blood Pressure in the Third and Fourth National Health and Nutrition  Examination Surveys	
Impact of a Social Marketing Media Campaign on Public Awareness of Hypertension	i
REVIEWS	
Systematic Review of the Effect of Daily Alcohol Intake on Blood Pressure	,
Role of Angiotensin Receptor Blockers as Monotherapy in Reaching Blood Pressure Goals 287–294 Suzanne Oparil, Tonous N. Silfani, and J. Findlay Walker	ŀ
LETTERS TO THE EDITOR  Increased Calcium/Magnesium Ratio in Young and Old Spontaneously Hypertensive Rats: Pathogenetic Factor in the Development of Hypertension and Vascular Fibrosis	5
<b>NUMBER 2, PART 2, FEBRUARY 2005</b>	
NEW APPROACHES TO HYPERTENSION MANAGEMENT:  ALWAYS REASONABLE BUT NOW NECESSARY  SUPPORTED BY AN EDUCATIONAL GRANT FROM CARDIODYNAMICS, INC.	
The state of the s	
INTRODUCTION  New Approaches to Hypertension Management: Always Reasonable But Now Necessary	S
FEATURED REVIEW ARTICLE	
Hypertension as a Hemodynamic Disease: The Role of Impedance Cardiography in Diagnostic, Prognostic, and Therapeutic Decision Making	S
ORIGINAL CONTRIBUTIONS	
Reproducibility of Impedance Cardiography Parameters in Outpatients With Clinically Stable Coronary Artery Disease	S
nei rester, Kenii Wayiri, alia Faui K. Jaiseli	

Noninvasive Hemodynamic Profiles in Hypertensive Subjects
Noninvasive Hemodynamic Assessment of the Effect of Mean Arterial Pressure on the Amplitude of
Pulse Pressure
Prognostic Value of Hemodynamic Findings from Impedance Cardiography in Hypertensive Stroke 65S–72S Marcellus Francis L. Ramirez, Restituto T. Tibayan, Crismelita E. Marinas, Milagros E. Yamamoto, and Eduardo Vicente S. Caguioa
Diagnostic Ability of B-Type Natriuretic Peptide and Impedance Cardiography: Testing to Identify Left Ventricular  Dysfunction in Hypertensive Patients
Systolic Blood Pressure Does Not Reliably Identify Vasoactive Status in Chronic Heart Failure 82S–86S Charles W. Parrott, Cheryl Quale, Deborah L. Lewis, Sara Ferguson, Rhonda Brunt, and Susan Glass
CASE STUDY
Use of Noninvasive Hemodynamics in Hypertension Management
NUMBER 3, MARCH 2005
EDITORIAL
Retinal Arteriolar Narrowing and Hypertension
ORIGINAL CONTRIBUTIONS
Angiotensin II Increases the Expression of Lectin-like Oxidized Low-Density Lipoprotein Receptor-1 in Human Vascular Smooth Muscle Cells via a Lipoxygenase-Dependent Pathway
Regression of Carotid Atherosclerosis by Control of Morning Blood Pressure Peak in Newly Diagnosed Hypertensive
Patients
Vascular Abnormalities in Asymptomatic, Healthy Young Adult Smokers Without Other Major Cardiovascular Risk Factors: The Bogalusa Heart Study
Circulating Matrix Metalloproteinase-9 and Tissue Inhibitors of Metalloproteinases-1 and -2 Levels in Gestational
Hypertension
Maternal Autoantibodies From Preeclamptic Patients Activate Angiotensin Receptors on Human Mesangial Cells and Induce Interleukin-6 and Plasminogen Activator Inhibitor-1 Secretion
Arterial Stiffness and Fetal Growth in Normotensive Pregnancy
Mild Renal Dysfunction Is Associated With Electrocardiographic Left Ventricular Hypertrophy 342–347 Tom D.J. Smilde, Folkert W. Asselbergs, Hans L. Hillege, Adriaan A. Voors, Jan A. Kors, Ron T. Gansevoort, Wiek H. van Gilst, Paul E. de Jong, and Dirk J. Van Veldhuisen

Insulin-Induced Changes in <i>β</i> -Adrenergic Responses: An Experimental Study in the Isolated Rat Papillary Muscle. 348–353 Nicola Ferrara, Pasquale Abete, Graziamaria Corbi, Giuseppe Paolisso, Giancarlo Longobardi, Claudio Calabrese, Francesco Cacciatore, Donatella Scarpa, Guido Iaccarino, Bruno Trimarco, Dario Leosco, and Franco Rengo Atrial and Brain Natriuretic Peptides as Markers of Cardiac Load and Volume Retention In Primary Aldosteronism	
In Primary Aldosteronism	Nicola Ferrara, Pasquale Abete, Graziamaria Corbi, Giuseppe Paolisso, Giancarlo Longobardi, Claudio Calabrese,
In Primary Aldosteronism	Atrial and Brain Natriuretic Pentides as Markers of Cardiac Load and Volume Retention
Metabolism in Hypertensive Patients: A Prospective Open-Label Study	in Primary Aldosteronism
Apolonia Rybczyńska, Konrad Boblewski, Artur Lehmann, Czesława Orlewska, Henryk Foks, Krystyna Drewnowska, and Anzelm Hoppe  Risk Reduction Therapy for Syndrome X: Comparison of Several Treatments	Metabolism in Hypertensive Patients: A Prospective Open-Label Study
Mor Oron-Herman, Ben-Ami Sela, and Talma Rosenthal  Significance of Elevated Blood Pressure and Its Management on the Short-Term Outcome of Patients With Acute Ischemic Stroke	Apolonia Rybczyńska, Konrad Boblewski, Artur Lehmann, Czeslawa Orlewska, Henryk Foks, Krystyna Drewnowska, and
Ischemic Stroke	
Ischemic Stroke	Significance of Elevated Blood Pressure and Its Management on the Short-Term Outcome of Patients With Acute
Carlos Lorenzo, Ken Williams, Clicerio Gonzalez-Villalpando, Michael P. Stern, Helen P. Hazuda, and Steven M. Haffner β₂-Adrenergic Receptor Polymorphisms and Determinants of Cardiovascular Risk: The Cardiovascular Health Study	Ischemic Stroke
Study	
Study	β <sub>2</sub> -Adrenergic Receptor Polymorphisms and Determinants of Cardiovascular Risk: The Cardiovascular Health
Javier Daniel Finkielman, Gary L. Schwartz, Arlene B. Chapman, Eric Boerwinkle, and Stephen T. Turner  Association Study of Calcitonin-Receptor-like Receptor Gene in Essential Hypertension	Study
Morihiko Sano, Nobuhiro Kuroi, Tomohiro Nakayama, Naoyuki Sato, Yoichi Izumi, Masayoshi Soma, and Shinichiro Kokubun  Dyslipidemic Hypertension: Distinctive Features and Cardiovascular Risk in a Prospective Population-Based Study. 409–416 Altan Onat, Gülay Hergenç, Ibrahim Sarı, Serdar Türkmen, Günay Can, and Vedat Sansoy  Measuring Arteriolar-to-Venous Ratio in Retinal Photography of Patients With Hypertension: Development and Application of a New Semi-Automated Method	
Altan Onat, Gülay Hergenç, Ibrahim Sarı, Serdar Türkmen, Günay Can, and Vedat Sansoy  Measuring Arteriolar-to-Venous Ratio in Retinal Photography of Patients With Hypertension: Development and Application of a New Semi-Automated Method	Morihiko Sano, Nobuhiro Kuroi, Tomohiro Nakayama, Naoyuki Sato, Yoichi Izumi, Masayoshi Soma, and
Application of a New Semi-Automated Method	
Application of a New Semi-Automated Method	Measuring Arteriolar-to-Venous Ratio in Retinal Photography of Patients With Hypertension: Development and
Roger J. Grekin, Chardpra-Orn Ngarmukos, David M. Williams, and Mark A. Supiano  Erectile Dysfunction and its Influence on Quality of Life in Patients With Essential Hypertension 427–430  Toshio Kushiro, Atsuhiko Takahashi, Fumio Saito, Yuji Otsuka, Masayoshi Soma, Toshiyuki Kurihara, Atsushi Satomura,	Application of a New Semi-Automated Method
Toshio Kushiro, Atsuhiko Takahashi, Fumio Saito, Yuji Otsuka, Masayoshi Soma, Toshiyuki Kurihara, Atsushi Satomura,	
	Toshio Kushiro, Atsuhiko Takahashi, Fumio Saito, Yuji Otsuka, Masayoshi Soma, Toshiyuki Kurihara, Atsushi Satomura,
REVIEW	REVIEW
A Unifying Pathway for Essential Hypertension	A Unifying Pathway for Essential Hypertension
LETTER TO THE EDITOR	LETTER TO THE EDITOR
Oxidative Stress and Profibrotic Action of Aldosterone	Oxidative Stress and Profibrotic Action of Aldosterone

# **NUMBER 4, PART 1, APRIL 2005**

Treatin	ORIAL  ng Obesity-Related Hypertension With Surgery
	SINAL CONTRIBUTIONS
	an Blood Pressure Variation in Morbidly Obese Hypertensive Patients Undergoing Gastric
	S Surgery
Study .	Resistance in Men With Treated Hypertension at Increased Risk for Cardiovascular Disease: Results of a 3-Year
	Mohteshamzadeh, Robert Wilkinson, and Simon H. L. Thomas
	on of Genetic Predisposition and Insulin Resistance to Left Ventricular Hypertrophy in Hypertension. 457–463 Inigematsu, Yuji Hara, Tomoaki Ohtsuka, Akiyoshi Ohgimoto, Katsuji Inoue, and Jitsuo Higaki
Heart	ibing Patterns for Antihypertensive Drugs After the Antihypertensive and Lipid-Lowering Treatment to Prevent Attack Trial: Report of Experience in a Health Maintenance Organization
Arteria	al Stiffness Evaluated by Measurement of the QKD Interval Is an Independent Predictor of Cardiovascular
	be Gosse, Raphaël Lasserre, Catherine Minifié, Philippe Lemetayer, and Jacques Clementy
The C	minants of the Second Derivative of the Finger Photoplethysmogram and Brachial–Ankle Pulse-Wave Velocity: Dhasama Study477–485 iro Hashimoto, Daisuke Watabe, Atsushi Kimura, Hisaki Takahashi, Takayoshi Ohkubo, Kazuhito Totsune, and a Imai
	ential Effects of Angiotensin II on Atherogenesis at the Aortic Sinus and Descending Aorta of
	oprotein-E-Deficient Mice
Angiot France	tensin II Type 2 Receptors Contribute to Vascular Responses in Spontaneously Hypertensive Rats Treated With tensin II Type 1 Receptor Antagonists
	s of Dietary Salt Loading on the Responses of Isolated Rat Mesenteric Arteries to Leptin 500–503 mmed M. Jaffar, David S. Myers, Lucy J. Hainsworth, Roger Hainsworth, and Mark J. Drinkhill
	Is Associated With Increased Matrix Metalloproteinase–2 Activity in the Human Aorta504–509 McNulty, J. Paul Spiers, Eilis McGovern, and John Feely
	cal Activity, Plasma Antioxidant Capacity, and Endothelium-Dependent Vasodilation in Young
Ferdir	Older Men
Patier Jing-F	iation of Interleukin-6 Gene G-174C Polymorphism and Plasma Plasminogen Activator Inhibitor–1 Level in Chinese Ints With and Without Hypertension517–522 Ren Jeng, Ji-Hung Wang, Wei-Shin Liu, Shee-Ping Chen, Michael Yu-Chih Chen, Meng-Hsiu Wu, Wen-Lin Hsu, and In-Zong Lin
Japan Tetsu	iation of C825T Polymorphism of G Protein β3 Subunit With the Autonomic Nervous System in Young Healthy lese Individuals

Gender Differences of Renal CYP-Derived Eicosanoid Synthesis in Rats Fed a High-Fat Diet Yiqiang Zhou, Songbai Lin, Hsin-Hsin Chang, Juan Du, Zheng Dong, Anne M. Dorrance, Michael W. Brands, an Mong-Heng Wang	
Possible Involvement of Aminopeptidase A in Hypertension and Renal Damage in Dahl Salt-Sensitive Rat Mami Nomura, Seiji Nomura, Takashi Mitsui, Masaki Suzuki, Honami Kobayashi, Tomomi Ito, Atsuo Itakura, Fumitaka Kikkawa, and Shigehiko Mizutani	s. 538–543
Increased Renal Production of Angiotensin II and Thromboxane $B_2$ in Conscious Diabetic Rats Alaa S. Awad, Randy L. Webb, Robert M. Carey, and Helmy M. Siragy	544–548
PPARγ in Endothelial Cells Influences High Fat Diet-Induced Hypertension	549–556
Potential Role of Angiotensin-Converting Enzyme Inhibitors and Statins on Early Podocyte Damage in a Model Diabetes Mellitus, Obesity, and Mild Hypertension	
Self-Reported Hypertension Treatment Beliefs and Practices of Primary Care Physicians in a Managed Care Organization	566–571
LETTERS TO THE EDITOR  JNC-7 Versus Renin-Based Strategies for Optimal Antihypertensive Drug Treatment	572–573
lpha-Blocker Monotherapy and Anticipated Occurrences of Heart Failure in Hypertensive Veterans David Parra, Amber-Lea Lundy, and Betsy Bierman	573–575
NUMBER 4, PART 2, APRIL 2005	
PREVENTING HYPERTENSIVE KIDNEY DISEASE: THE CRITICAL ROLE OF COMBINATION THERAPY SUPPORTED BY AN EDUCATIONAL GRANT FROM NOVARTIS PHARMACEUTICALS CORPORTED	ORATION
INTRODUCTION	
Preventing Hypertensive Kidney Disease: The Critical Role	
of Combination Therapy	935-945
REVIEW	
The Pathophysiologic Basis for Blocking the Renin-Angiotensin System in Hypertensive Patients With Renal	

George L. Bakris

Leopoldo Raij
ORIGINAL CONTRIBUTIONS The Role of Combination Antihypertensive Therapy in the Prevention and Treatment of Chronic Kidney Disease
Preventing Chronic Kidney Disease in Special Populations
Protecting Renal Function in the Hypertensive Patient: Clinical Guidelines

# **NUMBER 5, PART 1, MAY 2005**

#### ORIGINAL CONTRIBUTIONS

Effect of Telmisartan/Hydrochlorothiazide Combination Versus Nifedipine GITS on Ambulatory Blood Pressure and Sympathetic Activation
White-Coat Hypertension and Autonomic Nervous System  Dysregulation
In Clinical Practice, Masked Hypertension Is as Common as Isolated Clinic Hypertension: Predominance of Younger  Men
Sleep Apnea, Hypertension, and the Effects of Continuous Positive Airway Pressure
Carotid Artery Intima-Media Thickness Could Predict the Presence of Coronary Artery Lesions 601–606 Vasilios T. Kotsis, Vassiliki Ch. Pitiriga, Stella V. Stabouli, Christos M. Papamichael, Savvas T. Toumanidis, Stelios G. Rokas, and Nikos A. Zakopoulos
Nondipping Status Does Not Attenuate the Conjugated Estrogen–Induced Improvement in Aortic Stiffness in Postmenopausal Women With Untreated Hypertension
Relationship Between Mercury in Blood and 24-h Ambulatory Blood Pressure in Greenlanders and Danes. 612–618  Erling B. Pedersen, Marit E. Jørgensen, Michael B. Pedersen, Charlotte Siggaard, Tina B. Sørensen, Gert Mulvad,  Jens C. Hansen, Gert Asmund, and Henning Skjoldborg
Resistant Hypertension Revisited: A Comparison of Two University-Based Cohorts
A Genome Scan for Linkage With Aortic Root Diameter in Hypertensive African Americans and Whites in the Hypertension Genetic Epidemiology Network (HyperGEN) Study
Common Genetic Mechanisms of Blood Pressure Elevation in Two Independent Rodent Models of Human Essential Hypertension
Genome-Wide Linkage Study of Erythrocyte Sodium-Lithium Countertransport
Clinical and Genetic Correlates of Serum Aldosterone in the Community: The Framingham Heart Study. 657–665 Sekar Kathiresan, Martin G. Larson, Emelia J. Benjamin, Diane Corey, Joanne M. Murabito, Caroline S. Fox, Peter W.F. Wilson, Nader Rifai, James B. Meigs, Gesa Ricken, Richard P. Lifton, Daniel Levy, and

Yosuke Ando, Tatsuya Maruyama, and Takao Saruta

Further Evidence of a Quantitative Trait Locus on Chromosome 18 Influencing Postural Change in Systolic Blood Pressure: The Hypertension Genetic Epidemiology Network (HyperGEN) Study 672–678  James S. Pankow, Diane M. Dunn, Steven C. Hunt, Mark F. Leppert, Michael B. Miller, D.C. Rao, Gerardo Heiss, Albert Oberman, Jean-Marc Lalouel, and Robert B. Weiss
Augmentation Index and Systolic Load Are Lower in Competitive Endurance Athletes 679–683  David G. Edwards and Jesse T. Lang
Distribution and Correlates of Arterial Compliance Measures in Asymptomatic Young Adults: The Bogalusa Heart Study
Extracellular Matrix Remodeling in the Heart of the Homocysteinemic Obese Rabbit
Persistent Effects on Blood Pressure and Renal Function of Perindopril Alone or Combined With Losartan in Lyon Hypertensive Rats
Tempol Attenuates the Development of Hypertensive Renal Injury in Dahl Salt-Sensitive Rats 707–713  Ryohei Hisaki, Hirotaka Fujita, Fumio Saito, and Toshio Kushiro
Caffeine Tolerance is Incomplete: Persistent Blood Pressure Responses in the Ambulatory Setting 714–719  Noha H. Farag, Andrea S. Vincent, Bong Hee Sung, Thomas L. Whitsett, Michael F. Wilson, and William R. Lovallo
REVIEWS  Mechanisms for the Clinical Benefits of Angiotensin II Receptor  Blockers
The Association of Heart Failure With Insulin Resistance and the Development of Type 2 Diabetes 731–737 John B. Kostis and Michael Sanders

# NUMBER 5, PART 2, MAY 2005

### **Oral Sessions**

1A	Riomarkare	in	Hypertension:	Aro	Thow	Dolovant?
LA	biomarkers	ın	nybertension:	Are	rnev	Kelevanta

- 2A Lipids and Blood Pressure
- 3A Frontiers in Cardiovascular Imaging
- 4A Clues to the Etiology of Hypertension from Genetics to Genomics
- 6A Update on Aldosterone and Cardiorenal Disease in Hypertension
- 7A Hypertension and Stroke: Pathophysiology and Prevention of Major Vascular Events
- 8A ASH/IPHA Symposium
- 9A Recent and Late-Breaking Clinical Trials

#### **Posters**

- 10A Arterial Structure and Compliance
- 24A Blood Pressure Measurement/Monitoring
- 48A Alternative Medicine
- 50A Antihypertensive Drugs and Pharmacology
- 78A Genetics/Gene Therapy/Proteomics
- 86A Clinical Trials
- 99A Epidemiology/Special Populations
- 118A Heart Failure/Hypertrophy
- 126A Kidney and Hypertension
- 140A Risk Factors/Global Assessment
- 153A Cardiac Structure and Function
- 159A Cardiovascular Imaging and Hypertension Detection
- 162A Cell Biology/Growth Factors
- 166A Cell Membrane Transport/Ion Channels
- 167A Cerebrovascular Disease/Stroke
- 171A Coagulation/Thrombosis
- 173A Coronary Artery Disease
- 177A Endothelial Factors (endothelin, nitric oxide, etc.)
- 183A Experimental Hypertension
- 187A Gender Differences/Issues
- 190A Guidelines
- 192A Lipids
- 194A Metabolic Syndrome
- 207A Neural Mechanisms and Transmitters
- 211A Non-pharmacologic Therapy
- 214A Nutrition and Electrolytes
- 218A Patient-Provider-Healthcare System Issues

	223A	Pediatric Hypertension
	224A	Primary Prevention
	228A	Public Policy
	229A	Renin-Angiotensin-Aldosterone
	238A	Secondary Hypertension
	242A	Vascular Injury/Inflammation and Remodeling
	247A	Vasoactive Hormones/Autacoids
	251A	Women's Issues
	254A	Special Symposium: Hypertension in the Japanese Population
	265A	Faculty Abstracts
	270A	Keyword Index
	280A	Author Index
		NUMBER 6, JUNE 2005
EDI	TORIA	LS
Diure		Pgy and ESRD, Precipitating Factor or Epiphenomenon
Proge	rapeut stins and Rosendoi	d Potassium
ORI	GINAL	CONTRIBUTIONS
Is Pop State	s?	Vide Diuretic Use Directly Associated With the Incidence of End-Stage Renal Disease in the United
	ations of W. Cohe	an Ecological Study: A Review
1971	-1992	Cardiovascular Outcomes by Hypertensive Status: NHANES I Epidemiological Follow-up Study,
Risk	of Myoc	ardial Infarction Attributable to Elevated Levels of Total Cholesterol Among Hypertensives, 759–766

Nicole L. Glazer, Nicholas L. Smith, Susan R. Heckbert, Carine J.M. Doggen, Rozenn N. Lemaitre, and Bruce M. Psaty Impact of Multiple Cardiovascular Risk Factors on Brachial Artery Distensibility in Young Adults . . . . . 767–771

Elaine M. Urbina, Lyn Kieltkya, Jeffrey Tsai, Sathanur R. Srinivasan, and Gerald S. Berenson

Tianzheng Yu and Ali A. Khraibi

<b>BP Measurement</b> Masked Hypertension Assessed by Ambulatory Blood Pressure Versus Home Blood Pressure Monitoring: Is It the Same
Phenomenon?
Unmasking Hypertension: Are Both Methods Equal?
Long-Term Effect of Biliopancreatic Diversion on Blood Pressure in Hypertensive Obese Patients 780–784 Gianfranco Adami, Federica Murelli, Flavia Carlini, Francesco Papadia, and Nicola Scopinaro
Blood Vessels  Effect of Dark Chocolate on Arterial Function in Healthy Individuals
Alcohol Consumption and Augmentation Index in Healthy Young Men: The ARYA Study792–796  Marijke J.C.A. van Trijp, Joline W.J. Beulens, Willem J.W. Bos, Cuno S.P.M. Uiterwaal, Diederick E. Grobbee,  Henk F.J. Hendriks, and Michiel L. Bots
Therapeutics Effects of Drospirenone/17-β Estradiol on Blood Pressure and Potassium Balance in Hypertensive Postmenopausal Women
Validity of Plasma Aldosterone-to-Renin Activity Ratio in African American and White Subjects With Resistant  Hypertension
Isradipine Decreases the Hemodynamic Response of Cocaine and Methamphetamine
Genetics Cosegregation of Albuminuria and Blood Pressure: The Insulin Resistance Atherosclerosis (IRAS) Family Study. 823–827 Xiuqing Guo, Jinrui Cui, Lynne E. Wagenknecht, Jill M. Norris, Steven M. Haffner, Christine Darwin, Sujata Jinagouda, Jerome I. Rotter, and Mohammed F. Saad
Genome-Wide Scan for Hypertension in Sydney Sibships: The GENIHUSS Study
Diabetes  Predictors of Blood Pressure Control in Patients With Diabetes and Hypertension Seen in Primary Care Clinics. 833–838  Murali K. Duggirala, Robert M. Cuddihy, Maria-Teresa Cuddihy, James M. Naessens, Stephen S. Cha,  Jayawant N. Mandrekar, and Cynthia L. Leibson
Increased Superoxide Production in Hypertensive Patients With Diabetes Mellitus
Kidney Glomerular Permeability Defect in Hypertension Is Dependent on Renin Angiotensin System Activation. 844–850 Riccardo Candido, Michele Carraro, Francesco Fior, Mary L. Artero, Cristina Zennaro, Louise M. Burrell, Belinda J. Davis, Maria Rosa Cattin, Moreno Bardelli, Luigi Faccini, Renzo Carretta, and Bruno Fabris

Natriuretic Response to Direct Renal Interstitial Volume Expansion (DRIVE) in Pregnant Rats......851-857

#### Mechanisms

Oral Amino Acid Administration Decreases Oxidative Stress and Improves Brachial Reactivity in Elderly Individuals, 858-863 Daniela Manzella, Rodolfo Grella, Katherine Esposito, Federico Cacciapuoti, Alessandro Arciello, Dario Giugliano, and

Chronic Administration of Resveratrol Prevents Biochemical Cardiovascular Changes in Fructose-Fed Rats. 864-870 Roberto Miatello, Marcela Vázquez, Nicolás Renna, Montserrat Cruzado, Amira Ponce Zumino, and Norma Risler

Antioxidant Enzymes and Effects of Tempol on the Development of Hypertension Induced by Nitric Oxide Juan Sainz, Rosemary Wangensteen, Isabel Rodríquez Gómez, Juan Manuel Moreno, Virginia Chamorro, Antonio Osuna,

Pablo Bueno, and Félix Vargas Male Gender and Not the Severity of Hypertension Is Associated With End-Organ Damage in Aged Stroke-Prone 

Sreeharsha N. Masineni, Praveen N. Chander, Gagan D. Singh, C. Andrew Powers, Charles T. Stier, Jr

#### BRIEF COMMUNICATION

#### **Therapeutics**

Predictors of Failure to Initiate Randomized Treatment in a Large Trial of Antihypertensive Drug Therapy in the Mark R. Nelson, Philip Ryan, Kristyn Willson, Christopher M. Reid, Lawrence J. Beilin, Garry L. Jennings, Colin I. Johnston, Graham J. Macdonald, John E. Marley, John J. McNeil, Trefor O. Morgan, Malcolm J. West, and Lindon M.H. Wing

#### LETTERS TO THE EDITOR

#### **BP** Measurement

Alan C. Logan Raymond R. Townsend and Jenny Cadèe

Denis Chemla and Alain Nitenberg

# **NUMBER 7, JULY 2005**

#### **EDITORIAL**

The American Journal of Hypertension withdraws from its Affiliation with The American Society of Hypertension. A Michael H. Alderman, Joan Banes, Jon D. Blumenfeld, Haralambos Gavras, Theodore Kurtz, John M. Laragh, and Solomon Steiner

#### **Therapeutics**

Jay I. Meltzer

#### **ORIGINAL CONTRIBUTIONS**

#### Heart

#### **Mechanisms**

#### Experimentation

#### Genetics

#### **Blood Vessels**

Effects of High Intensity Resistance Training on Arterial Stiffness and Wave Reflection in Women...930–934 Miriam Y. Cortez-Cooper, Allison E. DeVan, Maria M. Anton, Roger P. Farrar, Kimberly A. Beckwith, Janice S. Todd, and Hirofumi Tanaka

#### **Therapeutics**

Pioglitazone Improves Left Ventricular Diastolic Function in Patients With Essential Hypertension.... 949–957 Takeshi Horio, Masaaki Suzuki, Kazutaka Suzuki,

Itaru Takamisawa, Aki Hiuge, Kei Kamide, Shin Takiuchi, Yoshio Iwashima, Shinji Kihara, Tohru Funahashi,

Yasunao Yoshimasa, and Yuhei Kawano

#### **BP** Measurement

Determinants of Exaggerated Difference in Morning and Evening Blood Pressure Measured by Self-measured Blood Pressure Monitoring in Medicated Hypertensive Patients: Jichi Morning Hypertension Research (J-MORE) Study. 958–965 Joji Ishikawa, Kazuomi Kario, Satoshi Hoshide, Kazuo Eguchi, Masato Morinari, Ruri Kaneda, Yuji Umeda, Shizukiyo Ishikawa, Toshio Kuroda, Yukihiro Hojo, Kazuyuki Shimada, on Behalf of the J-MORE Study Group

Kidney Mild Renal Dysfunction and Renal Vascular Resistance in Primary Hypertension
<b>Epidemiology</b> Ethnic Differences in Older Americans: Awareness, Knowledge, and Beliefs About Hypertension972–979 Eni C. Okonofua, Neal E. Cutler, Daniel T. Lackland, and Brent M. Egan
Is Low-Risk Hypertension Fact or Fiction? Cardiovascular Risk Profile in the TROPHY Study 980–985 Shawna D. Nesbitt, Stevo Julius, David Leonard, Brent M. Egan, and Melissa Grozinski, for the TROPHY Study Investigators
Autonomic Response  Effects of Orthostatic Stress on Forearm Endothelial Function in Normal Subjects and in Patients With Hypertension,  Diabetes, or Both Diseases
Reduced Baroreflex Effectiveness Index in Hypertensive Patients With Chronic Renal Failure 995–1000 Mats Johansson, Sinsia A. Gao, Peter Friberg, Marita Annerstedt, Göran Bergström, Jan Carlström, Ted Ivarsson, Gert Jensen, Susanne Ljungman, Öivind Mathillas, Finn-David Nielsen, and Ulf Strömbom
Metabolic  Human Soluble Leptin Receptor Number in Healthy Normotensive Individuals With High Normal  Blood Pressure
BRIEF COMMUNICATIONS
Mechanisms  Plasma Viscosity in Isolated Systolic Hypertension: The Role of Pulse Pressure
$eta_2$ -Adrenoceptor Polymorphisms Relate to Insulin Resistance and Sympathetic Overactivity as Early Markers of Metabolic Disease in Nonobese, Normotensive Individuals
LETTER TO THE EDITOR
Therapeutics Response to Dr. Mizushima
CRITIQUE  Reviewer Critique for American Journal of Hypertension article: "Reduced baroreflex effectiveness index in hypertensive patients with chronic renal failure" by Johansson et al

# **NUMBER 8, AUGUST 2005**

#### **EDITORIAL**

#### **Epidemiology**

Interleukin-15 in Hypertension: Further Insights into Inflammation and Vascular Disease........... 1017–1018 Hoong Sern Lim and Gregory Y.H. Lip

#### **ORIGINAL CONTRIBUTIONS**

#### **Epidemiology**

Antihypertensive Treatment Alters the Predictive Strength of Pulse Pressure and Other Blood Pressure Measures. 1033–1039

James Greenberg

#### **Therapeutics**

A Selective Estrogen Receptor Modulator, Tamoxifen, and Membrane Fluidity of Erythrocytes in Normotensive and Hypertensive Postmenopausal Women: An Electron Paramagnetic Resonance Investigation . . . . . . . 1067–1076 Kazushi Tsuda and Ichiro Nishio

#### Genetics

**Therapeutics** 

Klaus Kisters, Bernhard Gremmler, and Martin Hausberg

### Mechanisms Michel Safar **CRITIQUE** Andrew Steptoe **NUMBER 9, PART 1, SEPTEMBER 2005 EDITORIAL** John H. Laragh ORIGINAL CONTRIBUTIONS **Blood Vessel** Philippe Gosse and Michel E. Safar Regulation of Connexin Expression After Balloon Injury: Possible Mechanisms for Antiproliferative Effect of Lihong Wang, Junzhu Chen, Yilan Sun, Furong Zhang, Jianhua Zhu, Shenjiang Hu, and Donna H. Wang Metabolic Syndrome in Relation to Structure and Function of Large Arteries: A Predominant Effect of Blood Sébastien Czernichow, Sandrine Bertrais, Jacques Blacher, Jean-Michel Oppert, Pilar Galan, Pierre Ducimetière, Serge Hercberg, Michel Safar, and Mahmoud Zureik Red Wine Acutely Induces Favorable Effects on Wave Reflections and Central Pressures in Coronary Artery Disease Kalliopi N. Karatzi, Christos M. Papamichael, Emmanouil N. Karatzis, Theodoros G. Papaioannou, Konstantinos A. Aznaouridis, Paraskevi P. Katsichti, Kimon S. Stamatelopoulos, Antonis Zampelas, John P. Lekakis, and Myron E. Mavrikakis Carotid Tonometry Versus Synthesized Aorta Pressure Waves for the Estimation of Central Systolic Blood Pressure and Patrick Segers, Ernst Rietzschel, Steven Heireman, Marc De Buyzere, Thierry Gillebert, Pascal Verdonck, and Luc Van Bortel **Therapeutics** Ehud Grossman, Moshe Nadler, Yehonatan Sharabi, Michael Thaler, Amir Shachar, and Arie Shamiss Pregnancy Thierry Denolle, Jean-Claude Daniel, Christian Calvez, Jean-Noel Ottavioli, Vincent Esnault, and Daniel Herpin Increase of Serum Angiopoietin-2 During Pregnancy Is Suppressed in Women With Preeclampsia . . 1181-1188 Kumiko Hirokoshi, Yohei Maeshima, Kazuko Kobayashi, Eiji Matsuura, Hitoshi Sugiyama, Yasushi Yamasaki, Hisashi Masuyama, Yuji Hiramatsu, and Hirofumi Makino Mechanisms Chronic Estrogen Treatment Modifies Insulin-Induced Insulin Resistance and Hypertension in Ovariectomized Dongzhe Song, Emi Arikawa, Denise M. Galipeau, Jennifer N. Yeh, Mary L. Battell, Violet G. Yuen, and John H. McNeill

Нур	ect of Exogenous Urotensin-II on Vascular Tone in Skin Microcirculation of Patients With Essential pertension
Syr	duced mRNA and Protein Content of Rho Guanine Nucleotide Exchange Factor (RhoGEF) in Bartter's and Gitelman's ndromes: Relevance for the Pathophysiology of Hypertension
Ass	enetics sociation Between a Dopamine-4 Receptor Polymorphism and Blood Pressure
Au	antitative Genetic Analysis of Blood Pressure Response During the Cold Pressor Test1211–1217 drey C. Choh, Stefan A. Czerwinski, Miryoung Lee, Ellen W. Demerath, Alexander F. Wilson, Bradford Towne, and ger M. Siervogel
BF	Measurement
Jur	ctors Affecting Home-Measured Resting Heart Rate in the General Population
EF	PIDEMIOLOGY
Me	easures of Total Stress-Induced Blood Pressure Responses Are Associated With Vascular
	etro Nazzaro, Teresa Seccia, Vito Vulpis, Gabriella Schirosi, Gabriella Serio, Loredana Battista, and Anna Pirrelli
the	Economic Evaluation of the 2003 European Society of Hypertension–European Society of Cardiology Guidelines for e Management of Mild-to-Moderate Hypertension in Greece
Cı	ritique
Ну	eviewer Critique: "An Economic Evaluation of the 2003 ESH-ESC Guidelines for the Management of Mild-to-Moderate expertension in Greece"
В	RIEF COMMUNICATION
М	etabolic
An	Association Between Plasma Asymmetric Dimethylarginine and Membrane Fluidity of Erythrocytes in Hypertensive and Normotensive Men
R	EVIEW
Ev	herapeutics vidence for a Combined Approach to the Management of Hypertension and Dyslipidemia 1249–1257 enjamin J. Ansell
L	ETTERS TO THE EDITOR
F	pidemiology
В	lood Pressure— Importance of Salt Intake

## REPLY Marilyn S. Townsend, Victor L. Fulgoni, III, Judith S. Stern, and David A. McCarron **NUMBER 9, PART 2, SEPTEMBER 2005** PHARMACOLOGICAL MODULATION OF THE RENIN-ANGIOTENSIN SYSTEM IN HYPERTENSION: MAKING THE RIGHT CHOICE PUBLISHED WITH THE HELP OF AN UNRESTRICTED EDUCATIONAL GRANT FROM SERVIER Pavel Hamet ORIGINAL CONTRIBUTIONS Ben Brown and Alistair S. Hall How to Explain the Differences Between Renin Angiotensin System Bernard I. Levy Specific Properties and Effect of Perindopril in Controlling the Renin-Angiotensin System . . . . . . . . 142S-154S R. Ferrari, G. Pasanisi, P. Notarstefano, G. Campo, E. Gardini, and C. Ceconi Evidence for Benefits of Perindopril in Hypertension and Its Stéphane Laurent **NUMBER 10, OCTOBER 2005 EDITORIALS** Heart Indexation of Left Ventricular Mass to Identify Blood Pressure-Related Left Ventricular Hypertrophy, 1263-1265 Jonathan N. Bella Adrenal William M. Manger ORIGINAL CONTRIBUTIONS Genetics The G-308A Promoter Variant of the Tumor Necrosis Factor- $\alpha$ Gene Is Associated With Hypertension in Adolescents Silvia Sookoian, Silvia I. García, Tomás Fernández Gianotti, Guillermo Dieuzeide, Claudio D. González, and Carlos J. Pirola The Prevalence of CYP2C8, 2C9, 2J2, and Soluble Epoxide Hydrolase Polymorphisms in African Americans With

Allan E. Rettie, Helen Kim, Federico M. Farin, L. Lee Hamm, and Juan J.L. Lertora

### Heart Indexation Criteria of Ventricular Mass and Predictive Role of Blood Pressure and Body Composition, 1282-1287 Liberato Aldo Ferrara, Olga Vaccaro, Ondina Cardoni, Martino Laurenzi, Mario Mancini, and Alberto Zanchetti Different Normalizations for Body Size and Population Attributable Risk of Left Ventricular Hypertrophy: The MAVI Giovanni de Simone, Richard B. Devereux, Aldo P. Maggioni, Massimo Gorini, Oreste de Divitiis, and Paolo Verdecchia Combination of Site of Infarct, Unrecognized Glucose Intolerance, and Reinfarction After Acute Myocardial Infarction in Normotensive Subjects Is Determinant of the Development of Subsequent Systemic Hypertension: Abdul-Majeed Salmasi, Layla J. Al-Bahrani, Audrey Alimo, Peter Frost, and Mark Dancy Kidney Increased Sodium Intake Correlates With Greater Use of Antihypertensive Agents by Subjects With Chronic Kidney Neil Boudville, Sharon Ward, Mark Benaroia, and Andrew A. House Adrenal Yehuda Kamari, Yehonatan Sharabi, Adi Leiba, Edna Peleg, Sara Apter, and Ehud Grossman **Therapeutics** Felodipine-Metoprolol Combination Tablet: Maintained Health-Related Quality of Life in the Presence of Substantial Blood Björn Dahlöf, Alessio Degl' Innocenti, Dag Elmfeldt, Juan Garcia Puig, Torstein Gundersen, James Hosie, Wlodzimierz Januszewicz, Carl-Johan Lindström, Dieter Magometschnigg, Paul Tanser, Pavles Toutouzas, Bernhard Waeber, and Ingela Wiklund **Autonomic Response** Loss of Diurnal Rhythms of Blood Pressure and Heart Rate Caused by High-Fat Feeding.......1320-1326 Joan F. Carroll, Jeremy J. Thaden, Allison M. Wright, and Taylor Strange Ruri Kaneda and Kazuomi Kario Mechanisms Insulin-Stimulated NAD(P)H Oxidase Activity Increases Migration of Cultured Vascular Smooth Muscle Ming Yang, Estrella Foster, and Andrew M. Kahn Exaggerated Liver Injury Induced by Ischemia-Reperfusion in Spontaneously Hypertensive Rats.... 1335-1339 Masami Ohmori, Nobutaka Araki, Ken-ichi Harada, Toshiaki Sudoh, Koh-ichi Suqimoto, and Akio Fujimura Renin-Angiotensin Angiotensin II Plays an Important Role in Maintaining Blood Pressure in Postmenopausal Women Receiving Hormone Hiroyuki Sumino, Shuichi Ichikawa, Yoshinori Miya, Tetsuo Sakamaki, and Masahiko Kurabayashi Antagonism of the Renin-Angiotensin System Can Counteract Cardiac Angiogenic Vascular Endothelial Growth Factor A.J. Siddiqui, A. Mansson-Broberg, T. Gustafsson, K.H. Grinnemo, G. Dellgren, X. Hao, H. Fischer, and C. Sylvén

Reduction of Pneumonia Risk by an Angiotensin I-Converting Enzyme Inhibitor in Elderly Japanese Inpatients Accord	ling
to Insertion/Deletion Polymorphism of the Angiotensin I-Converting Enzyme Gene	1359
Takashi Takahashi, Shigeto Morimoto, Kohya Okaishi, Tsugiyasu Kanda, Takeshi Nakahashi, Masashi Okuro,	
Hiroshi Murai, Yukiharu Nishimura, Kunimitsu Iwai, and Masayuki Matsumoto	

#### **BRIEF COMMUNICATION**

#### **Therapeutics**

#### CASE REPORT

#### Adrenal

#### REVIEWS

#### **BP** Measurement

### Pregnancy

Role of RIHP and Renal Tubular Sodium Transporters in Volume Retention of Pregnant Rats.... 1375–1383

Ali A. Khraibi, Anca D. Dobrian, Tianzheng Yu, Michael J. Solhaug, and Reinhart B. Billiar

#### ERRATA

# **NUMBER 11, NOVEMBER 2005**

#### **EDITORIAL**

#### **ORIGINAL CONTRIBUTIONS**

the Canadian Hypertension Education Program

#### **Epidemiology**

pertension in HIV-Infected Patients: Prevalence and Related Factors	5-1401
Measurement	
ping and Variability of Blood Pressure and Heart Rate at Night Are Heritable Traits Stiano Fava, Philippe Burri, Peter Almgren, Guido Arcaro, Leif Groop, U. Lennart Hulthén, and Olle Melander	2–1407
ng-Term Reproducibility of Routine Ambulatory Blood Pressure Monitoring in Stable Pediatric Renal Transplant Cipients	3-1414
f-Monitoring of Blood Pressure Promotes Achievement of Blood Pressure Target in Primary	
alth Care	5–1420
itique  f-Monitoring of Blood Pressure in Primary Care: Is It Useful?	. 1421
Measurement	
rdiovascular Outcome in Treated Hypertensive Patients with Responder, Masked, False Resistant, and True Res	
pertension	
itique	
flections on Masked Hypertension	. 1429
eart	
rtic Valve Sclerosis and Albuminuria Predict Cardiovascular Events Independently in Hypertension 143 Chael H. Olsen, Kristian Wachtell, Jonathan N. Bella, Vittorio Palmieri, Eva Gerdts, Gunnar Smith, Markku S. Ni Orn Dahlöf, Hans Ibsen, and Richard B. Devereux	
6A Polymorphism of the Angiotensinogen Gene and Its Association With Left Ventricular Mass in Asymptomatic	Young
ults from a Biethnic Community	
dney	
ethylenetetrahydrofolate Reductase Gene Polymorphisms in Essential Hypertension Szek Tylicki, Manuela Födinger, Heidemarie Puttinger, Przemyslaw Rutkowski, Pawel Strozecki, Sylwia Tyszko, Ileslaw Rutkowski, and Walter H. Hörl	2-1448
pertension Induced by Aortic Coarctation Above the Renal Arteries Is Associated With Immune Cell Infiltration	of the
dneys	9-1456
iabetes	
gh Pulse Pressure Associated With Cardiovascular Events in Patients With Type 2 Diabetes Undergoing	7 1463
emodialysis	>/-1462

**ORIGINAL CONTRIBUTIONS** 

Norm R.C. Campbell, Bruce W. Culleton, and Donald W. McKay

**BP Measurement** 

Misclassification of Blood Pressure by Usual Measurement in Ambulatory Physician Practices . . . . . . 1522-1527

Morning Blood Pressure Hyper-reactivity Is an Independent Predictor for Hypertensive Cardiac Hypertrophy in a Community-Dwelling Population	}
True Resistant Hypertension: Is it Possible to Be Recognized in the Office?	)
Reviewer Critique  Managing Resistant Hypertension: Not Just a Question of Numbers	2
Blood Vessels Adiponectin and Arterial Stiffness	3
Genetics Atherosclerosis and the Glu298Asp Polymorphism of the eNOS Gene in White Patients With End-Stage Renal Disease	5
Salt Intake Affects the Relation Between Hypertension and the T-786C Polymorphism in the Endothelial Nitric Oxide Synthase Gene	2
Heart Three-Dimensional Echocardiographic and Magnetic Resonance Assessment of the Effect of Telmisartan Compared With Carvedilol on Left Ventricular Mass: A Multicenter, Randomized, Longitudinal Study	9
Left Atrial Systolic Force and Cardiovascular Outcome	5
Reviewer Critique  Reviewer Critique to "Left Atrial Systolic Force and Cardiovascular Outcome: The Strong Heart Study" 1577  Jacob E. Møller	7
Kidney  Effect of BQ-123, an Endothelin Antagonist, on Renal Hemodynamics, Tubular Function, Vasoactive Hormones, and Blood Pressure in Healthy Humans: A Dose Response Study	5
Diabetes  B-Type Natriuretic Peptide Is Associated With Both Augmentation Index and Left Ventricular Mass in Diabetic Patients  Without Heart Failure	1
Therapeutics Warfarin Therapy and Systolic Hypertension in Men With Atrial Fibrillation	9

Lactobacillus helveticus Fermented Milk Lowers Blood Pressure in Hypertensive Subjects in 24-h Ambulatory Blood Pressure Measurement
Triple Vasopeptidase Inhibition Normalizes Blood Pressure in Conscious, Unrestrained, and Spontaneously Hypertensive Rats
Prolonged Melatonin Administration Decreases Nocturnal Blood Pressure in Women
Reviewer Critique Potential Use of Melatonin as Adjunct Antihypertensive Therapy
Brain and CNS  Effects of Different Classes of Antihypertensive Drugs on Cerebral Hemodynamics in Elderly Hypertensive  Patients
BRIEF COMMUNICATION
Blood Vessels Pioglitazone-Induced Insulin Sensitization Improves Vascular Endothelial Function in Nondiabetic Patients With Essential Hypertension
Renin-Anigiotensin-Aldosterone System  Does Aldosterone-to-Renin Ratio Predict the Antihypertensive Effect of the Aldosterone Antagonist  Spironolactone?
LETTERS TO THE EDITOR
Therapeutics Angiotensin Receptor Blockers and Magnesium Status in Essential Hypertension
REPLY
Maya Koren-Michowitz and Ahuva Golik

# **NUMBER 12, PART 2, DECEMBER 2005**

THE ROAD AHEAD WITH B-BLOCKERS: EXPANDING TREATMENT OPTIONS IN CARDIOVASCULAR DISEASE SUPPORTED BY AN EDUCATIONAL GRANT FROM MYLAN LABORATORIES INC.

#### INTRODUCTION

The Road Ahead With  $\beta$ -Blockers: Expanding Treatment Options in Cardiovascular Disease . . . . . . . . . . . . . . . 163S–164S Norman K. Hollenberg

### ORIGINAL CONTRIBUTIONS

The Role of $\beta$ -Blockers as a Cornerstone of Cardiovascular Therapy	165S-168S
The Role of the New $\beta$ -Blockers in Treating Cardiovascular Disease	169S-176S
Exploring Vascular Benefits of Endothelium-Derived Nitric Oxide	177S-183S
CME Assessment Test	1845-1875

